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10/539,443	06/20/2005	Anders Nykiaer	NYKJAERI	6823
• • • •	7590 09/11/2007	EXAMINER		
BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, NW			MACFARLANE, STACEY NEE	
SUITE 300 WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary						
		10/539,443	NYKIAER ET AL.			
	Office Action Summary	Examiner	Art Unit			
	The MAN INC DATE of this commission is	Stacey MacFarlane	1649			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠) Responsive to communication(s) filed on 20 June 2005.					
2a) <u></u> □	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5) ☐ 6) ☐ 7) ☐ 8) ☑ requirem Applicat	ion Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) ☐ acce	vn from consideration. 5, 60-62, 64-66 and 70-71 are sub r. epted or b) objected to by the I	oject to restriction and/or election			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The dath of declaration is objected to by the Examiner. Note the attached office following forms.						
•	under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Infor	out(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO/SB/08) Der No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 1.

Group 2, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 2.

Group 3, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 6.

Group 4, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 7.

Group 5, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 8

Group 6, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 9.

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Group 7, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 10.

Group 8, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 11.

Group 9, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is a peptide comprising SEQ ID NO: 13.

Group 10, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is an antibody directed against a sequence of SEQ ID NO: 1.

Group 11, claim(s) 1-5, 7, 10, 11, 13-25, 27-37 and 40-45, in so far as they are drawn to a method of treatment of disease comprising administering an effective amount of an agent; wherein the agent is an antisense RNA, antisense DNA or siRNA.

Group 12, claim(s) 46-51, drawn to an in vitro method for screening for compounds that alter binding of a neurotrophin to a Vps10p-domain receptor family.

Group 13, claim(s) 52, drawn to a method or determining the effect of an agent on activity of neurotrophins.

Group 14, claim(s) 55 and 60, drawn to a method for modulating the transport of a neurotrophin.

Group 15, claim(s) 61-62, drawn to a method for treatment by modulating the transport of a neurotrophin.

Group 16, claim(s) 64-66, drawn to a method for isolating a compound capable of altering binding of a neurotrophin to a receptor of the Vps10p-domain family.

Group 17, claim(s) 70, drawn to a pharmaceutical composition comprising an antibody directed against amino acids 612-740 of SEQ ID NO: 1.

Group 18, claim(s) 71, drawn to a pharmaceutical composition comprising a soluble receptor of the Vps10p-domain receptor family.

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2. The inventions listed as Groups 1-18 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the claimed methods is an agent or compound that (1) binds to a receptor of the Vps10p-domain family and/or (2) interferes with binding between a receptor of the Vps10p-domain family and a neurotrophin and/or (3) modulates the expression of a receptor of the Vps10p-domain family. The expression "special technical feature" is defined in Rule 13.2 as meaning those technical features that define a contribution which each of the inventions makes over the prior art. Whether a particular feature makes a contribution over the prior art, is considered with respect to novelty and inventive step. The following reference teaches antibody- and ligand-agents that bind to a receptor of the Vps10p-domain family (page 22789, paragraphs 3-4; Jacobsen et al. The Journal of Biological Chemistry 276(25): 22788-22796, published June 2001). While the article and the instant application share a common entity, the article qualifies as prior art because it is "by others". Since the prior art teaches the corresponding special technical feature of Groups 1-18, the inventions listed do not relate to a single general inventive concept under PCT Rule 13.1.

Species Election

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

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The species are as follows:

(Claims 5 and 47) Elect a neurotrophin from the group consisting of: neural growth factor (NGF), brain derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3), or neurotrophin-4/5 (NT-4/5).

(Claim 7-11 and 48) Elect a receptor from the group consisting of: SorLA, Sortilin, SorCSI, SorCS-2, or SorCS-3.

(Claims 33-35, 37, 40-44) Elect a disease for treatment from the group consisting of: Alzheimer's disease, Parkinson's disease, Huntington's chorea, stroke, ALS, peripheral neuropathies, necrosis or loss of neurons, nerve damage to trauma, kidney dysfunction, injury, and the toxic effects of chemotherapeutics used to treat cancer and AIDS, aberrant sprouting in epilepsy, schizophrenia, pancreas or lung injury and/or dysfunction, OR injury and/or dysfunction of the central and/or peripheral nervous systems.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: Claims 1-4.

- 4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: they encompass structurally distinct neurotrophins and receptors, and pathologically and etiologically distinct diseases and conditions for treatment.
- 5. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
 - (a) the inventions have acquired a separate status in the art in view of their different classification:
 - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
 - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
 - (d) the prior art applicable to one invention would not likely be applicable to another invention;

(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP

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§ 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder**. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacey MacFarlane whose telephone number is (571) 270-3057. The examiner can normally be reached on Monday-Thursday 6:30AM-4:00 PM & ALT. Fridays, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stacey MacFarlane Examiner Art Unit 1649

SNM

OLGAN. CHENTYSHEY,PH.D.